IN THE CLAIMS

This listing of claims replaces all prior listings:

1. (Currently Amended) A recording liquid deposited on a support in the state of liquid droplets for effecting printing on said support, wherein comprising:

the recording liquid contains a colorant matter; and

a solvent for dispersing said colorant matter;[[, and]]

has a 0-second dynamic surface tension not less than 30 mN/m and not more than 40 mN/m; and

a polyhydric alcohol including a hydrocarbon group with the number of carbon atoms less than 9, the polyhydric alcohol having (I/O) of the inorganic value to the organic value not less than 1.18 and not more than 2.5.

- 2. (Cancelled)
- 3. (Currently Amended) The recording liquid according to claim 1[[2]] wherein said polyhydric alcohol contains a branched hydrocarbon group.
- 4. (Currently Amended) The recording liquid according to claim 1 [[2]] containing, as said polyhydric alcohol, one or more of organic compounds represented by the chemical formulae formulae 1 to 5, chemical formulae 1-5 being:

[[[]]chemical formula 1[[]]]

wherein where each of R1 and R2-denote represent hydrocarbon groups, with 2 S R1+R2 S 4, R1 \sim 0 and R2 \sim 0, provided that, if R1 = 0 and R2 = 0, R1 and R2 each denote represent a hydrogen atom;

[[[]]chemical formula 2[[]]]

whereinwhere each of R3 and R4 representdenote hydrocarbon groups, with 2 S R3+R4 S 6, R3 \sim 0 and R4 \sim 0, provided that, if R3 = 0 and R4= 0, R3 and R4 each denote represent a hydrogen atom;

[[[]]chemical formula 3[[]]]

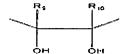
wherein where each of R5 and R6 denote represent hydrocarbon groups, with 1 S R5+R6 S 4, R5~0 and R6~0, provided that, if R5 = 0 and R6= 0,

R5 and R6 each denote_represent_a hydrogen atom;

[[[]]chemical formula 4[[]]]

where whereineach of R7 and R8 denote represent hydrocarbon groups, with 2 S R7+R8 S 6; and

[[[]]chemical formula 5[[]]]



wherein each of R9 and R10 represent denote hydrocarbon groups, and with $2 \le R9 + R10 \le 4$.

- 5. (Original) The recording liquid according to claim 1 wherein the static surface tension is not less than 30 mN/m and not more than 35 mN/m.
- 6. The recording liquid according to claim 1 containing, as a surfactant, further comprising an alkylene oxide adduct of a polyhydric alcohol as a surfactant,

wherein,

said alkylene oxide adduct of the polyhydric alcohol <u>contains</u> eontaining a hydrocarbon group with nine or less carbon atoms, and

having the ratio (I/O) of the inorganic value (IV) to the organic value (OV) not less than 1 and not more than 1.33.

- 7. (Original) The recording liquid according to claim 6 wherein said alkylene oxide adduct of polyhydric alcohol contains a branched hydrocarbon group.
- 8. (Currently Amended) The recording liquid according to claim 6 <u>further</u> <u>comprising containing</u>, as said alkylene oxide adduct of polyhydric alcohol, one or more of organic compounds represented by the chemical formulas 6 to 8:

[[[]]chemical formula 6[[]]]

where wherein EO represents denotes an ethylene oxide group, with $1 \le a+b \le 6$; [[[]]chemical formula 7[[]]]

where wherein EO denotes represents an ethylene oxide group, with $1 \le c+d \le 6$; and [[[]]chemical formula 8[[]]]

wherein where EO represents denotes an ethylene oxide group, with $1 \le e+f \le 5$.

- 9. (Original) The recording liquid according to claim 6 wherein the static surface tension is not less than 30 mN/m and not more than 35 mN/m.
- 10. (Currently Amended) The recording liquid according to claim 1[[2]] further comprising containing, as a surfactant, at least one ethylene oxide/ propylene oxide copolymer represented by the chemical formula 9, chemical formula 9 being:

[[[]]chemical formula 9[[]]]

where x, y and z are integers, with $3 \le x+z \le 12$ and $8 \le y \le 21$, and

where the content in a molecule of ethylene oxide units ranges between 20 wt% and 40 wt%.

11. (Withdrawn) A liquid cartridge detachably mounted on a liquid emitting head provided on a liquid emitting device, said liquid cartridge operating as a supply source for supplying a recording liquid, accommodated in a liquid vessel, to said liquid emitting head, said liquid emitting device being adapted to emit said recording liquid from said liquid vessel in the form of liquid droplets to deposit the emitted ink onto a support to effect printing, wherein

said recording liquid contains colorant matter and a solvent for dispersing said colorant matter, and has a 0-second dynamic surface tension not less than 30 mN/m and not more than 40 mN/m.

12. (Withdrawn) The liquid cartridge according to claim 11 wherein the recording liquid contains, in addition to said colorant matter and said solvent, a polyhydric alcohol

having an I/O ratio, namely a ratio of an inorganic value (IV) to an organic value (OV), equal to not less than 1.18 and not more than 2.5, and containing a hydrocarbon group with the number of carbon atoms being not more than 9.

- 13. (Withdrawn) The liquid cartridge according to claim 12 wherein said polyhydric alcohol contains a branched hydrocarbon group.
- 14. (Withdrawn) The liquid cartridge according to claim 12 wherein said recording liquid contains, as said polyhydric alcohol, one or more of organic compounds represented by the chemical formulas 10 to 14:

[chemical formula 10]

wherein R1 and R2 denote hydrocarbon groups, with 2 S R1+R2 S 4, R1 \sim 0 and R2 \sim 0, provided that, if R1 = 0 and R2 = 0, R1 and R2 each denote a hydrogen atom; [chemical formula 11]

wherein R3 and R4 denote hydrocarbon groups, with 2 S R3+R4 S 6, R3~0 and R4~

0, provided that, if R3 = 0 and R4 = 0, R3 and R4 each denote a hydrogen atom; [chemical formula 12]

wherein R5 and R6 denote hydrocarbon groups, with 1 S R5+R6 S 4, R5 \sim 0 and R6 \sim 0, provided that, if R5 = 0 and R6= 0, R5 and R6 each denote a hydrogen atom; [chemical formula 13]

wherein R7 and R8 denote hydrocarbon groups, with 2 S R7+R8 S 6; and [chemical formula 14]

wherein R9 and R10 denote hydrocarbon groups, with 2 S

R9+R10 S 4.

- 15. (Withdrawn) The liquid cartridge according to claim 11 wherein the static surface tension is not less than 30 mN/m and not more than 35 mN/m.
- 16. (Withdrawn) The liquid cartridge according to claim 11 containing, as a surfactant, an

alkylene oxide adduct of a polyhydric alcohol, said alkylene oxide adduct of the polyhydric alcohol containing a hydrocarbon group with nine or less carbon atoms and having the ratio (I/O) of the inorganic value (IV) to the organic value (OV) not less than 1 and not more than 1.33.

- 17. (Withdrawn) The liquid cartridge according to claim 16 wherein said alkylene oxide adduct of polyhydric alcohol contains a branched hydrocarbon group.
- 18. (Withdrawn) The liquid cartridge according to claim 16 containing, as said alkylene oxide adduct of polyhydric alcohol, one or more of organic compounds represented by the chemical formulas 15 to 17:

[chemical formula 15]

wherein EO denotes an ethylene oxide group, with $1 \le a+b \le 6$; [chemical formula 16]

wherein EO denotes an ethylene oxide group, with $1 \le c+d \le 6$; and [chemical formula 17]

wherein EO denotes an ethylene oxide group, with $1 \le e+f \le 5$.

- 19. (Withdrawn) The liquid cartridge according to claim 16 wherein the static surface tension is not less than 30 mN/m and not more than 35 mN/m.
- 20. (Withdrawn) The liquid cartridge according to claim 12 containing, as a surfactant, at least one ethylene oxide/ propylene oxide copolymer represented by the chemical formula 18:

[chemical formula 18]

wherein x, y and z are integers, with $3 \le x+z \le 12$ and $8 \le y \le 21$, and wherein the content of ethylene oxide units in a molecule ranges between 20 wt% and 40 wt%.

21. (Withdrawn) A liquid emitting device including a liquid emitting head, having an emitting opening for emitting a recording liquid therethrough in the form of liquid droplets and

head, wherein

adapted for emitting the liquid droplets through said emitting opening onto a support transported to a location facing said emitting opening, and a liquid cartridge connected to said liquid emitting head and operating as a supply source for supplying said recording liquid to said liquid emitting

the recording liquid contains colorant matter and a solvent for dispersing said colorant matter, and has a 0-second dynamic surface tension not less than 30 mN/m and not more than 40 mN/m.

- 22. (Withdrawn) The liquid emitting device according to claim 21 wherein the recording liquid contains, in addition to said colorant matter and said solvent, a polyhydric alcohol having an I/O ratio, namely a ratio of an inorganic value (IV) to an organic value (OV), equal to not less than 1.18 and not more than 2.5, and containing a hydrocarbon group with the number of carbon atoms not more than 9.
- 23. (Withdrawn) The liquid emitting device according to claim 22 wherein said polyhydric alcohol contains a branched hydrocarbon group.
- 24. (Withdrawn) The liquid emitting device according to claim 22 containing, as said polyhydric alcohol, one or more of organic compounds represented by the chemical formulas 19 to 23:

[chemical formula 19]

wherein R1 and R2 denote hydrocarbon groups, with 2 S R1+R2 S 4, R1 \sim 0 and R2 \sim 0, provided that, if R1 = 0 and R2 = 0, R1 and R2 each denote a hydrogen atom; [chemical formula 20]

wherein R3 and R4 denote hydrocarbon groups, with 2 S R3+R4 S 6, R3 \sim 0 and R4 \sim 0, provided that, if R3 = 0 and R4= 0, R3 and R4 each denote a hydrogen atom; [chemical formula 21]

wherein R5 and R6 denote hydrocarbon groups, with 1 S R5+R6 S 4, R5 \sim 0 and R6 \sim 0, provided that, if R5 = 0 and R6= 0, R5 and R6 each denote a hydrogen atom;

[chemical formula 22]

wherein R7 and R8 denote hydrocarbon groups, with $2 \le R7 + R8 \le 6$; and [chemical formula 23]

wherein R9 and R10 denote hydrocarbon groups, with $2 \le R9 + R10 \le 4$.

- 25. (Withdrawn) The liquid emitting device according to claim 21 wherein the static surface tension is not less than 30 mN/m and not more than 35 mN/m.
- 26. (Withdrawn) The liquid emitting device according to claim 21 containing, as a surfactant, an alkylene oxide adduct of a polyhydric alcohol, said alkylene oxide adduct of the polyhydric alcohol containing a hydrocarbon group with nine or less carbon atoms and having the ratio (I/O) of the inorganic value (IV) to the organic value (OV) not less than 1 and not more than 1.33.
- 27. (Withdrawn) The liquid emitting device according to claim 26 wherein said alkylene oxide adduct of polyhydric alcohol contains a branched hydrocarbon group.
- 28. (Withdrawn) The liquid emitting device according to claim 26 containing, as said alkylene

oxide adduct of polyhydric alcohol, one or more of organic compounds represented by the chemical formulas 24 to 26:

[chemical formula 24]

wherein EO denotes an ethylene oxide group, with $1 \le a+b \le 6$; [chemical formula 25]

wherein EO denotes an ethylene oxide group, with $1 \le c+d \le 6$; and [chemical formula

26]

wherein EO denotes an ethylene oxide group, with $1 \le e+f \le 5$.

- 29. (Withdrawn) The liquid emitting device according to claim 26 wherein the static surface tension is not less than 30 mN/m and not more than 35 mN/m.
- 30. (Withdrawn) The liquid emitting device according to claim 21 wherein there are provided a plurality of said emitting openings which are arrayed substantially in a line.
- 31. (Withdrawn) The liquid emitting device according to claim 22 wherein said recording liquid contains, as a surfactant, at least one ethylene oxide/ propylene oxide copolymer represented by the chemical formula 9:

[chemical formula 27]

wherein x, y and z are integers, with $3 \le x+z \le 12$ and $8 \le y \le 21$, and wherein the content

of ethylene oxide units in a molecule ranges between 20 wt% and 40 wt%.

32. (Withdrawn) A liquid emitting method to be carried out by a liquid emitting

device including a liquid emitting head, having an emitting opening for emitting a recording

liquid therethrough in the form of liquid droplets and adapted for emitting the liquid droplets

through said emitting opening onto a support transported to a location facing said emitting

opening, and a liquid cartridge connected to said liquid emitting head and operating as a supply

source for supplying said recording liquid to said liquid emitting head, comprising:

emitting said recording liquid via said emitting opening of said liquid emitting head; said

recording liquid containing colorant matter and a solvent for dispersing said colorant matter, and

having a 0-second dynamic surface tension not less than 30 mN/m and not more than 40 mN/m.

33. (Withdrawn) The liquid emitting method according to claim 32 wherein the

recording liquid contains, in addition to said colorant matter and said solvent, a polyhydric

alcohol having an I/O ratio, namely a ratio of an inorganic value (IV) to an organic value (OV),

equal to not less than 1.18 and not more than 2.5, and containing a hydrocarbon group with the

number of carbon atoms not more than 9.

34. (Withdrawn) The liquid emitting method according to claim 33 wherein said

polyhydric alcohol contains a branched hydrocarbon group.

35. (Withdrawn) The liquid emitting method according to claim 33 containing, as said

polyhydric alcohol, one or more of organic compounds represented by the chemical formulas 28

to 32:

[chemical formula 28]

- 14 -

wherein R1 and R2 denote hydrocarbon groups, with $2 \le R1 + R2 \le 4$, $R1 \ge 0$ and $R2 \ge 0$, provided that, if R1 = 0 and R2 = 0, R1 and R2 each denote a hydrogen atom;

[chemical formula 29]

wherein R3 and R4 denote hydrocarbon groups, with 2 S R3+R4 S 6, R3 \sim 0 and R4 \sim 0, provided that, if R3 = 0 and R4= 0, R3 and R4 each denote a hydrogen atom; [chemical formula 30]

wherein R5 and R6 denote hydrocarbon groups, with 1 S R5+R6 S 4, R5 \sim 0 and R6 \sim 0, provided that, if R5 = 0 and R6= 0, R5 and R6 each denote a hydrogen atom; [chemical formula 31]

wherein R7 and R8 denote hydrocarbon groups, with 2 S R7+R8 S 6; and [chemical formula 32]

wherein R9 and R10 denote hydrocarbon groups, with $2 \le R9 + R10 \le 4$.

- 36. (Withdrawn) The liquid emitting method according to claim 32 wherein the static surface tension is not less than 30 mN/m and not more than 35 mN/m.
- 37. (Withdrawn) The liquid emitting method according to claim 32 wherein said recording liquid, containing, as a surfactant, an alkylene oxide adduct of a polyhydric alcohol, said alkylene oxide adduct of the polyhydric alcohol containing a hydrocarbon group with nine or less carbon atoms and having the ratio (I/O) of the inorganic value (IV) to the organic value (OV) not less than 1 and not more than 1.33, is emitted via said emitting opening.
- 38. (Withdrawn) The liquid emitting method according to claim 37 wherein said alkylene oxide adduct of polyhydric alcohol contains a branched hydrocarbon group.
- 39. (Withdrawn) The liquid emitting method according to claim 37 containing, as said alkylene oxide adduct of polyhydric alcohol, one or more of organic compounds represented by the chemical formulas 33 to 35:

[chemical formula 33]

wherein EO denotes an ethylene oxide group, with $1 \le a+b \le 6$; [chemical formula 34]

wherein EO denotes an ethylene oxide group, with $1 \le c+d \le 6$; and [chemical formula

35]

wherein EO denotes an ethylene oxide group, with $1 \le e+f \le 5$.

- 40. (Withdrawn) The liquid emitting method according to claim 34 wherein said recording liquid having the static surface tension not less than 30 mN/m and not more than 35 mN/m is emitted via said emitting opening.
- 41. (Withdrawn) The liquid emitting method according to claim 33 wherein said recording liquid containing, as a surfactant, at least one ethylene oxide/ propylene oxide copolymer represented by the chemical formula 36:

[chemical formula 36]

$$\begin{array}{c} \mathsf{HO}(\mathsf{CH}_2\mathsf{CH}_2\mathsf{O})_*(\mathsf{CHCH}_2\mathsf{O})_*(\mathsf{CH}_2\mathsf{CH}_2\mathsf{O})_*\mathsf{H} \\ \mathsf{CH}_3 \end{array}$$

is emitted via said emitting opening, wherein x, y and z are integers, with $3 \le x+z \le 12$ and $8 \le y \le 21$, and wherein the content of ethylene oxide units in a molecule ranges between 20 wt% and 40 wt%.